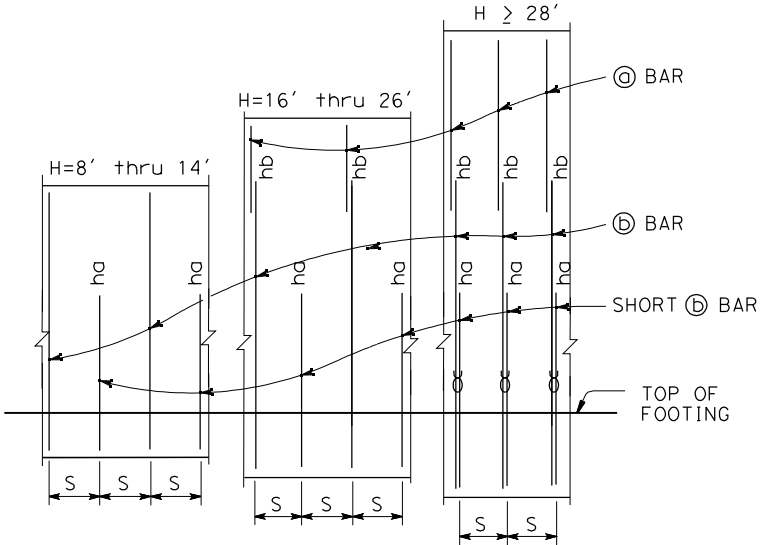
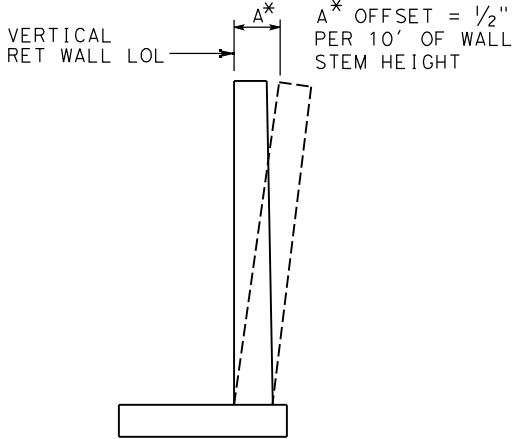


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE			No. X		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.			EXP. X CIVIL STATE OF CALIFORNIA		



**ELEVATION**  
No Scale

NOTES:  
"ha", "hb" above ⓑ bars indicate distance from top of footing to upper end of ⓑ bars, see table.  
"S" is ⓑ bar spacing, see table.



**WALL OFFSET**  
No Scale

Values for offsetting forms to be determined by the Engineer.

**DESIGN DATA**

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

WS: 33 psf on Sound wall and Barrier  
LS: Varied surcharge on level ground surface  
CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward

EQE: Mononabe-Okabe Method  
K<sub>h</sub> = 0.3  
K<sub>v</sub> = 0.0

Soil:  $\phi = 34^\circ$   
 $\gamma = 120$  pcf

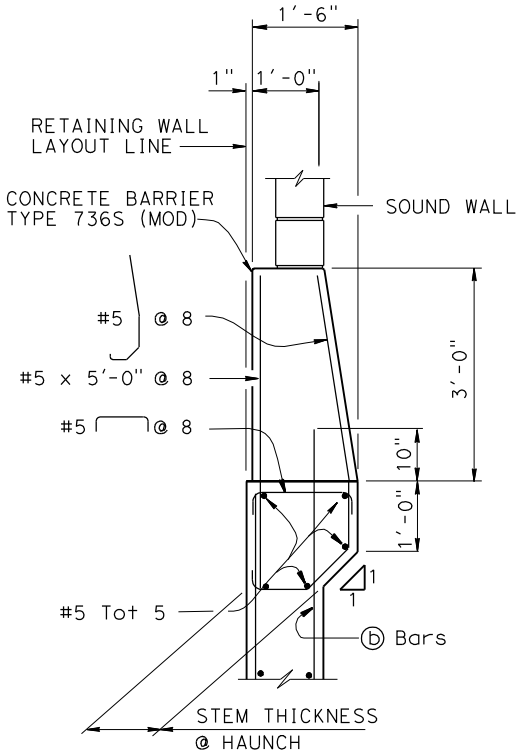
Reinforced Concrete:  $f'_c = 3600$  psi  
 $f_y = 60,000$  psi

**Load Combinations and Limit States**

Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS+Td  
Service II Q=1.00DC+1.00EV+1.00EH+1.00WS+Td  
Strength I Q=aDC+BEV+1.50EH+1.75LS+Td  
Strength III Q=aDC+BEV+1.50EH+1.40WS+Td  
Strength V Q=aDC+BEV+1.50EH+1.35LS+0.40WS+Td  
Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE+Td  
Extreme II Q=1.00DC+1.00EV+1.00EH+1.00CT+Td

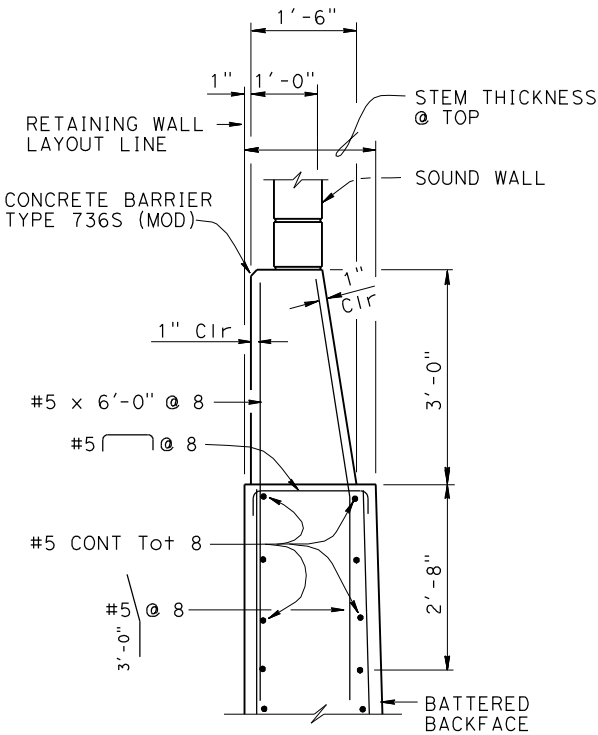
Where: Q: Force Effects  
a: 1.25 or 0.90, Which ever Controls Design  
B: 1.35 or 1.00, which ever Controls Design  
DC: Dead Load of Structure Components  
EV: Vertical Earth Fill Pressure  
LS: Live Load Surcharge  
EQE: Seismic Earth Pressure  
EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design  
WS: Wind Load on Sound wall and Barrier  
CT: Vehicular Collision Force  
Td: Anchor Design Load

- NOTES:
- For Sound wall and Retaining wall Architectural finish or texture see Details elsewhere in Project Plans
  - For Details not shown and Drainage Notes see (3-5)
  - Footing cover, 2'-0" minimum.
  - For Sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
  - For H=6' through 14', extend ⓑ bars into Barrier for stem with haunch.
  - Shift ⓑ bars and ⓐ bars as required to clear formed hole for ground anchor.
  - Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the table.

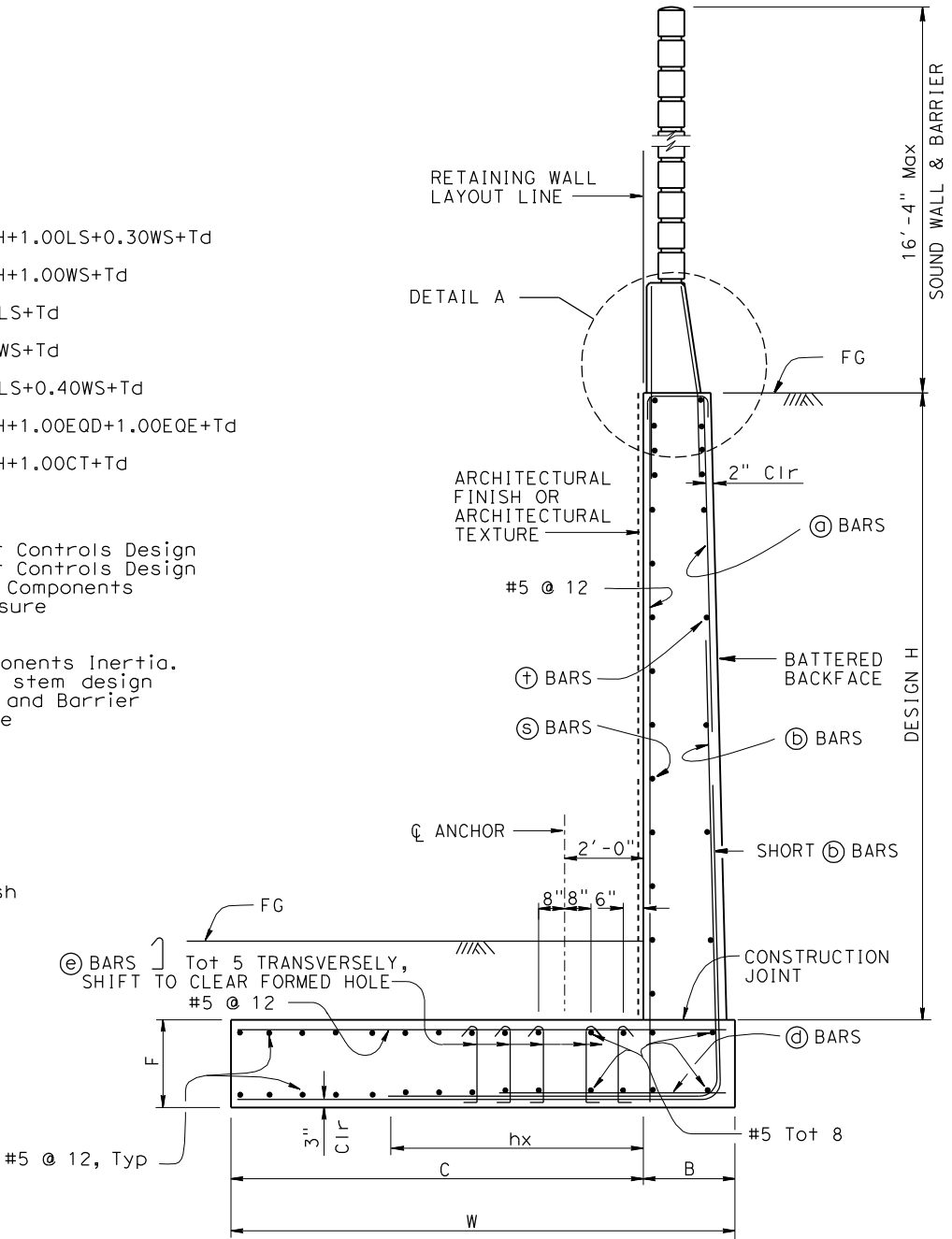


**DETAIL A - WITH HAUNCH**  
No Scale

For Details not shown, see "DETAIL A - WITHOUT HAUNCH"



**DETAIL A - WITHOUT HAUNCH**  
No Scale



**SPREAD FOOTING SECTION**  
No Scale

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. X		X	
FILE NO. <b>xs14-390-1</b>	APPROVAL DATE July 2011					POST MILE X		RETAINING WALL TYPE 7SWB - DETAILS NO.1	
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: X PROJECT NUMBER & PHASE: X		CONTRACT NO.: X		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				FILE => \$REQUEST				REVISION DATES SHEET X OF X	